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A Contribution to the Knowledge of the  
Flora of Japan.

(Continued from p. 14.)

By  
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**PSEUDOSASA** MAKINO in Journ. Jap. Bot. II, 4 (1920), p. 15.

Rhizome sympodial. Culms ascending below. Leaves evergreen, large; shoulder-fimbriae none, or very rarely scarcely present and filiform (not spinuliform) and soon deciduous. Panicles many on the culm throughout, not large, shortly or rather long peduncled. Spikelets several- or subnumerous-flowered, purpurascens but often cinerascent when dry. Stamens 6-4.

*Pseudosasa kurilensis* (RUPR.) MAKINO, nov. nom.

*Arundinaria kurilensis* RUPR. in Bull. Phys.-Math. VIII. p. 121.

*Arundinaria kurilensis*,  $\alpha.$  *genuina* FR. SCHM. Reis. im Amurl. u. Ins. Sachal. (1868), p. 198.

*Bambusa kurilensis* MIYABE, Fl. Kuril. p. 271.

27; MAKINO in Journ. Jap. Bot. V. 2 (1928), p. 3.  
*Sasa kurilensis* MAKINO ET SHIBATA in Bot. Mag., Tokyo, XV. (1901), p.

Nom. Jap. *Nemagari-dake*, *Chishima-zasa*.

*Hab.* JAPAN, widely distributed.

*var. nebulosa* (MAKINO) MAKINO, nov. comb.

*Arundinaria paniculata* f. *nebulosa* MAKINO in Bot. Mag., Tokyo, XIV. (1900), p. 52.

*Sasa paniculata* f. *nebulosa* MAKINO ET SHIBATA, l. c. XV. (1901), p. 25.

Nom. Jap. *Shakotan-chiku*.

*Hab.* JAPAN.

**Pseudosasa japonica** (SIEB. ET ZUCC.) MAKINO in Journ. Jap. Bot. II. 4 (1920), p. 15.

*Arundinaria japonica* SIEB. ET ZUCC. ex STEUD. Syn. Gram. (1855), p. 334.

Nom. Jap. *Ya-dake*.

*Hab.* JAPAN.

**Pseudosasa Owatarii** (MAKINO) MAKINO, l. c. p. 16.

*Arundinaria Owatarii* MAKINO in Bot. Mag., Tokyo, XXI. (1907), p. 16.

Nom. Jap. *Yakushima-dake*.

*Hab.* JAPAN.

**Pseudosasa spiculosa** (FR. SCHMIDT) MAKINO, l. c. p. 16.

*Arundinaria kurilensis* β. *spiculosa* FR. SCHM. Reis. im Amurl. u. Ins. Sachal. (1868), p. 198.

Nom. Jap. *Suzu-dake*.

*Hab.* JAPAN.

**forma angustior** MAKINO.

*Sasa spiculosa forma angustior* MAKINO in Journ. Jap. Bot. V. 2 (1928), p. 9.

Nom. Jap. *Hosoba-suzudake*.

*Hab.* JAPAN.

**Pseudosasa Hisauchii** MAKINO.

*Sasa Hisauchii* MAKINO in Journ. Jap. Bot. III. 6 (1926), p. 24.

Nom. Jap. *Hime-suzudake*.

*Hab.* JAPAN.

**Pseudosasa Uchidai** MAKINO, nov. nom.

*Sasa Uchidai* MAKINO in Journ. Jap. Bot. V. 2 (1928), p. 4.

Nom. Jap. *Nagaba-nemagaridake*.

*Hab.* JAPAN.

? **Pseudosasa Togashiana** MAKINO.

*Sasa Togashiana* MAKINO in Journ. Jap. Bot. V. 2 (1928), p. 5.

Nom. Jap. *Nambu-suzu*.

*Hab.* JAPAN.

**Sasa matsushimensis** MAKINO, nov. sp.

An evergreen small bamboo. Culm erect or ascending, attaining about 1½ m. in height, loosely ramose in age, slender, terete, fistulose, smooth, glabrous, thick-walled, green or purpurascens, 3-5 mm. across; node prominent, glabrous; internodes long, white-bloomy under the nodes; branches one to a node, erect-patent, often flexuous, clothing with old dead sheaths. Leaves 3-7 towards the top of branchlets and palmately arranged, shortly petiolate, oblong-lanceolate, acuminate with a sharp tip at the apex, rounded or subcordato-rounded but acute or obtuse in the apical ones at the base, minutely spinulose on margins, chartaceous or membranaceo-chartaceous, green and glabrous above, paler and very scantily pubescent with white hairs, 10-23 cm. long including the petiole, 15-45 mm. wide; midrib slender, prominent beneath, greenish; veins 6-8 on each side; veinlets finely tessellate with short-rectangular, square and transverse-rectangular areolae; petiole 3-8 mm. long, sub-

cuneiform, compressed, thick, glabrous but densely minute-puberulous at the base in front, glabrous and with a rib dorsally; ligule very short, truncate, coriaceous, densely minute-puberulous dorsally, ciliated on margins, 1-1½ mm. long; sheath closely encircled, coriaceous, glabrous, viridescent, numerously striate, subcarinate above dorsally, ciliated or not so on margin; shoulder-fimbriae spinuliform, deciduous. Spike in the axil of old sheath on branchlets, shortly peduncled, vaginat below, few-spiculiferous; vaginae 3, convolute, greenish, boat-shaped; microphyll small, subulate. Spicules erect, several-subnumerous-flowered; rachilla flexuous, puberulous with adpressed sericeous hairs. Flowers 9-11 mm. long; flowering-glume ovate, acuminate, greenish but purpureo-scariosus on margin; palea slightly shorter than the flowering-glume. Stamens 6. Ovary with a 3-branched (branches plumose) style.

Nom. Jap. *Matsushima-zasa* (nov. nom.).

Hab. Prov. RIKUZEN: Matsushima (SHIGETARO UCHIDA! March 1928.).

**Elatine triandra** SCHK. var. **orientalis** (MAKINO) MAKINO, nov. comb.

*Elatine triandra* FRANCH. ET SAV. Enum. Pl. Jap. I. p. 54, non SCHK.

*Elatine orientalis* MAKINO in Bot. Mag., Tokyo., XII. (1898), p. 196, et XIII. (1899), p. 1.

Nom. Jap. *Mizo-hakobe* (YOSHIO TANAKA).

Hab. JAPAN, widely distributed.

**Calanthe discolor** LINDL. var. **Tyoh-Harai** (MAKINO) MAKINO, nov. comb.

*Calanthe Tyoh-Harai* MAKINO in Journ. Jap. Bot. III. 9 (1926), p. 35.

Nom. Jap. *Akakura-ebine*.

Hab. Prov. ECHIGO: Akakura.

**Ilicium religiosum** SIEB. ET ZUCC. var. **rosea** (MAKINO) MAKINO, nov. comb.

*Ilicium anisatum* var. *rosea* MAKINO in Journ. Jap. Bot. III. 4 (1926), p. 15.

Nom. Jap. *Usuben-i-shikimi*.

Hab. JAPAN, southern.

**Caltha pygmaea** (MAKINO) MAKINO, nov. comb.

*Caltha palustris* var. *pygmaea* MAKINO in Bot. Mag., Tokyo, XVI. (1902), p. 146, et in IINUMA's Somoku-Dzusetsu, ed. 3, II. 10 (1910), p. 60, tab. 47.

Nom. Jap. *Koba-no-ryūkinkwa*.

Hab. JAPAN, cultivated.

**Iris minutoaurea** MAKINO, nov. nom.

*Iris minuta* FRANCH. ET SAV. Enum. Pl. Jap. II. (1879), pp. 42, 521; MAXIM. in Mél. Biol. X. p. 715; Baker, Handb. Irid. p. 2; MAKINO in Bot. Mag., Tokyo, XVI. (1902), p. 148; Bot. Mag. t. 8293 (1910), non L. FIL.

Nom. Jap. *Kin-kakitsubata*.

Hab. JAPAN, cultivated.

**Plectranthus inflexus** VAHL forma *subglabrus* MAKINO, nov. f.

Stem and leaves nearly glabrous.

Nom. Jap. *Me-yamahakka* (nov. nom.).

*Hab.* Prov. RIKUZEN: Sendai, cultivated (EIKICHI IISHIBA! Oct. 15, 1923.).

**Vicia Faba** L. forma *ascendens* MAKINO.

Legumes erect or ascendent, not deflexed.

Nom. Jap. *Sora-mame*.

*Hab.* JAPAN, widely cultivated.

**Bidens albiflora** (MAXIM.) MAKINO, nov. comb.

*Bidens pilosa* var. *albiflora* MAXIM. (in litt.) Catal. Herb. Coll. Sc. Imp. Univ., Tokyo (1886), Correct. p. 4.

Stem and leaves nearly as in *Bidens pilosa* L., but the ray-flowers are white and more conspicuous.

Nom. Jap. *Shiro-no-sendangusa*, *Shirobana-no-sendangusa*.

*Hab.* JAPAN, naturalized.

**Dryopteris pseudo-africana** MAKINO ET OGATA in Journ. Jap. Bot. IV. 5 (1927), p. 140.

*Dryopteris izuensis* KODAMA in MATSUM. Ic. Pl. Koisikav. II. 1 (1914), p. 7, tab. 88, partim.

Nom. Jap. *Mizoshida-modoki*.

*Hab.* Prov. IDZU: Dyōren-no-taki.

**Dryopteris africana** C. CHR.; MAKINO ET OGATA in Journ. Jap. Bot. IV. 5 (1927), p. 140.

*Dryopteris izuensis* KODAMA in MATSUM. Ic. Pl. Koisikav. II. 1 (1914), p. 7, tab. 88, partim.

Nom. Jap. *Mizo-shida*.

*Hab.* JAPAN, common.

**Mitrastemon Yamamotoi** MAKINO var. **Kawa-Sasakii** (HAYATA) MAKINO, nov. comb.

*Mitrastemon Kawa-Sasakii* HAYATA in Bot. Mag., Tokyo, XXVI. (1912), p. 112, in ENGL. Bot. Jahrb. LI. 1 (1913), p. 165, et Ic. Pl. Formos. III. 156 (1913); YAMAMOTO, Suppl. Ic. Pl. Formos. II. 2 (1926), p. 10, fig. 6.

*Mitrastemon Yamamotoi* forma *Kawa-Sasakii* MAKINO in Bot. Mag., Tokyo, XXVIII. (1914), p. 20; MAKINO ET NEMOTO, Fl. Jap. (1925), p. 882.

Nom. Jap. *Taiwan-yakkosō*.

*Hab.* FORMOSA.

var. **Kanehirai** (YAMAMOTO) MAKINO, nov. comb.

*Mitrastemon Kanehirai* YAMAMOTO in Bot. Mag., Tokyo, XXXIX. (1925), p. 142, fig. 1-15, et Suppl. Ic. Pl. Formos. II. (1926), p. 10, fig. 7-8.

Nom. Jap. *Hishigata-yakkosō*.

*Hab.* FORMOSA, on roots of *Castanopsis Junghuhnii* Miq. and *Lithocarpus uraiana* HAYATA (after YOSHIMATSU YAMAMOTO).

(To be continued.)